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including the trilobites and Merostomata. The illustrations are abundant and in most every case well engraved. The pages given to the Merostomata, the Phyllocarida and the lower Macrura are full and fresh in treatment. Each order is defined; a brief general account of the external anatomy follows, with remarks on the opinions of different authors as to their classification. The families and genera are defined, the leading types are figured, and then follow tables showing the geological distribution of the species. The author is usually critical in his mode of treatment, as seen in his doubtful recognition of Brachypyge as a Carboniferous crab, which, since the publication of this part, has been shown to be a pedipalp arachnidan. We do not see why, even in the light of Meek and Worthen's excellent treatment, Anthrapalæmon should be placed in the Penæidæ. Still the author's thoroughness and command of the literature is evident throughout the work.

FAXON'S REVISION OF THE CRAWFISH.¹—This is a systematic treatise on the crawfish of the Northern hemisphere, based chiefly on the material in the museum at Cambridge, which now possesses all the known species from Europe and Asia, and all the American species, with three exceptions. The richness of the material may be realized by the fact that twenty new species of *Cambarus* are described, whereas Dr. Hagen, in his well-known memoir on the North American crawfish, described but ten unknown to previous authors.

The treatment of the material by the author, as may have been expected, is thorough, and the illustrations, drawn by Mr. Paul Roetter, are excellent. It is a matter of great interest to be able to study such a group as this, scattered as it is through the northern portions of the New and Old World. It is to be hoped that our naturalists will endeavor hereafter, in making out our American fauna, to compare it with that of Europe and particularly Eastern Asia.

GRABER'S ANIMAL MECHANICS.—This forms a double volume in a German series, entitled, *Das Wissen der Gegenwart*, devoted to popular knowledge relating to science, history and literature; each volume costing but a single mark or twenty-five cents.

The present volume is devoted to the mechanics of the external organs of vertebrates and invertebrates. The author is well known as an authority on the mechanics of motion, etc., of the Arthropoda and has given us what we have found to be a most useful and interesting volume, quite out of the ordinary line of works on natural history. It is abundantly illustrated with novel and graphic sketches, usually well drawn. The topics treated under Vertebrates are the mechanics of the

¹ *Memoirs of the Museum of Comparative Zoölogy*, x, No. 4. A revision of the Asticidæ. By WALTER FAXON. Part I. The genera *Cambarus* and *Astacus*. With ten plates. Cambridge, August, 1885. 4to, pp. 186.